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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2008; month=8; day=29; hr=14; min=36; sec=42; ms=293; ]

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Application No: 10501566 Version No: 4.0

**Input Set:****Output Set:**

**Started:** 2008-07-28 16:24:05.950  
**Finished:** 2008-07-28 16:24:09.991  
**Elapsed:** 0 hr(s) 0 min(s) 4 sec(s) 41 ms  
**Total Warnings:** 178  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 178  
**Actual SeqID Count:** 178

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (13)
W 402	Undefined organism found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 402	Undefined organism found in <213> in SEQ ID (18)
W 402	Undefined organism found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

**Input Set:**

**Output Set:**

**Started:** 2008-07-28 16:24:05.950  
**Finished:** 2008-07-28 16:24:09.991  
**Elapsed:** 0 hr(s) 0 min(s) 4 sec(s) 41 ms  
**Total Warnings:** 178  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 178  
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Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)
W 213	Artificial or Unknown found in <213> in SEQ ID (26)
W 213	Artificial or Unknown found in <213> in SEQ ID (27)
W 213	Artificial or Unknown found in <213> in SEQ ID (28) This error has occurred more than 20 times, will not be displayed
W 402	Undefined organism found in <213> in SEQ ID (39)
W 402	Undefined organism found in <213> in SEQ ID (40)
W 402	Undefined organism found in <213> in SEQ ID (41)
W 402	Undefined organism found in <213> in SEQ ID (42)
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W 402	Undefined organism found in <213> in SEQ ID (67)
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W 402	Undefined organism found in <213> in SEQ ID (98) This error has occurred more than 20 times, will not be displayed



SEQUENCE LISTING

<110> UNO, Yukio  
 HIKICHI, Yukiko  
 SAGIYA, Yoji  
 NAKANISHI, Atsushi

<120> Human Sodium-Dependent Bile Acid Transporter Proteins

<130> P04-068US

<140> 10501566

<141> 2004-07-15

<150> JP 2002-10840

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<151> 2002-02-01

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<170> PatentIn version 3.4

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Leu	Gly	Cys	Ser	Val	Glu	Ile	Arg	Lys	Leu	Trp	Ser	His	Ile	Arg	Arg
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Ala Ile Ala Val Leu Ile Met Gly Cys Cys Pro Gly Gly Thr Ile Ser						
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Asn Ile Phe Thr Phe Trp Val Asp Gly Asp Met Asp Leu Ser Ile Ser						
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Ala Phe Gly Val Tyr Val Asn Tyr Arg Trp Pro Lys Gln Ser Lys Ile						
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	225			230		235
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Phe Pro Leu Ala Tyr Gly Leu Phe Gln Leu Ile Asp Gly Phe Leu Ile						
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Val Ala Ala Tyr Gln Thr Tyr Lys Arg Arg Leu Lys Asn Lys His Gly						
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Lys Lys Asn Ser Gly Cys Thr Glu Val Cys His Thr Arg Lys Ser Thr						
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<210> 6

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      35              40              45
Leu Gly Cys Ser Val Glu Ile Arg Lys Leu Trp Ser His Ile Arg Arg
      50              55              60
Pro Trp Gly Ile Ala Val Gly Leu Leu Cys Gln Phe Gly Leu Met Pro
      65              70              75              80
Phe Thr Ala Tyr Leu Ala Ile Ser Phe Ser Leu Lys Pro Val Gln
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Ala Ile Ala Val Leu Ile Met Gly Cys Cys Pro Gly Gly Thr Ile Ser
      100             105             110
Asn Val Phe Thr Phe Trp Val Asp Gly Asp Met Asp Leu Ser Ile Ser
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Met Thr Thr Cys Ser Thr Val Ala Ala Leu Gly Met Met Pro Leu Cys
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Ile Tyr Leu Tyr Thr Trp Ser Trp Ser Leu Gln Gln Asn Leu Thr Ile
      145             150             155             160
Pro Tyr Gln Asn Ile Gly Ile Thr Leu Val Cys Leu Thr Ile Pro Val
      165             170             175
Ala Phe Gly Val Tyr Val Asn Tyr Arg Trp Pro Lys Gln Ser Lys Ile
      180             185             190
Ile Leu Lys Ile Gly Ala Val Val Gly Gly Val Leu Leu Leu Val Val
      195             200             205
Ala Val Ala Gly Val Val Leu Ala Lys Gly Ser Trp Asn Ser Asp Ile
      210             215             220
Thr Leu Leu Thr Ile Ser Phe Ile Phe Pro Leu Ile Gly His Val Thr
      225             230             235             240
Gly Phe Leu Leu Ala Leu Phe Thr His Gln Ser Trp Gln Arg Cys Arg
      245             250             255
Thr Ile Ser Leu Glu Thr Gly Ala Gln Asn Ile Gln Met Cys Ile Thr
      260             265             270
Met Leu Gln Leu Ser Phe Thr Ala Glu His Leu Val Gln Met Leu Ser
      275             280             285
Phe Pro Leu Ala Tyr Gly Leu Phe Gln Leu Ile Asp Gly Phe Leu Ile
      290             295             300
Val Ala Ala Tyr Gln Thr Tyr Lys Arg Arg Leu Lys Asn Lys His Gly
      305             310             315             320
Lys Lys Asn Ser Gly Cys Thr Glu Val Cys His Thr Arg Lys Ser Thr
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Ser Ser Arg Glu Thr Asn Ala Phe Leu Glu Val Asn Glu Glu Gly Ala
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Ile Thr Pro Gly Pro Pro Gly Pro Met Asp Cys His Arg Ala Leu Glu

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 Ala Ser Ser Glu Pro Glu Glu Gly Ile Ser Val Phe Glu Leu Asp Tyr  
 50 55 60  
 Asp Tyr Val Gln Ile Pro Tyr Glu Val Thr Leu Trp Ile Leu Leu Ala  
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 Ser Leu Ala Lys Ile Gly Phe His Leu Tyr His Arg Leu Pro Gly Leu  
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 Met Pro Glu Ser Cys Leu Leu Ile Leu Val Gly Ala Leu Val Gly Gly  
 100 105 110

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Asp	Ile	Glu	Thr	Val	Asp	Ile	Leu	Ala	Gly	Cys	Ala	Arg	Phe	Ile	Val	260	265	270
Val	Gly	Leu	Gly	Gly	Val	Leu	Phe	Gly	Ile	Val	Phe	Gly	Phe	Ile	Ser	275	280	285
Ala	Phe	Ile	Thr	Arg	Phe	Thr	Gln	Asn	Ile	Ser	Ala	Ile	Glu	Pro	Leu	290	295	300
Ile	Val	Phe	Met	Phe	Ser	Tyr	Leu	Ser	Tyr	Leu	Ala	Ala	Glu	Thr	Leu	305	310	315
Tyr	Leu	Ser	Gly	Ile	Leu	Ala	Ile	Thr	Ala	Cys	Ala	Val	Thr	Met	Lys	325	330	335
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Tyr	Phe	Met	Lys	Met	Leu	Ser	Ser	Val	Ser	Glu	Thr	Leu	Ile	Phe	Ile	355	360	365
Phe	Met	Gly	Val	Ser	Thr	Val	Gly	Lys	Asn	His	Glu	Trp	Asn	Trp	Ala	370	375	380
Phe	Ile	Cys	Phe	Thr	Leu	Ala	Phe	Cys	Gln	Ile	Trp	Arg	Ala	Ile	Ser	385	390	395
Val	Phe	Ala	Leu	Phe	Tyr	Ile	Ser	Asn	Gln	Phe	Arg	Thr	Phe	Pro	Phe	405		